

human cancer cell lines MCF-7, determined using MTT assay.

Microalgae in micronutrient limitation showed high P concentrations in nutrient limitation and steroid accumulation. The combination of N, S and P were combined in the cultivation of microalgae in photobioreactors to obtain a high yield of microalgae in PBR. The combination of N, S and P led to accumulated lipidic compounds. The lipidic compounds exhibited antioxidant activity (DPPH, ASTP and ·OH radicals) with IC<sub>50</sub> values of 5.49, 11.42 and 21.11 ±1.18 µg/ml, respectively. The mechanism which is understood. Microalgae lipidic compounds had an inhibitory effect on three human cancer cells: MCF-7, HCT116 and A549 with IC<sub>50</sub> values of 5.49, 11.42 and 6.68 µg/ml, respectively. The inhibition of proliferation of

Microalgae suggested that microalgae lipidic compounds and antioxidant activity and could be used as natural ingredients for functional food. The addition of biomass to reach the stage of

## F: Prevention and Management of Non-communicable Diseases

### Intestinal Infection in Malnourished Children

Hossein Khavari Daneshvar<sup>1</sup>, \*Monireh Rahimkhani<sup>2</sup>

<sup>1</sup>Cancer research Centre, Tehran University of Medical sciences, Tehran, Iran; <sup>2</sup>Faculty of allied Medical Sciences, Tehran University of Medical Sciences, Tehran, Iran

\*Corresponding Author: Monireh Rahimkhani, M.D. & Ph.D, Faculty of Allied Medical Sciences, Tehran University of Medical Sciences, Tehran, Iran

**Key words:** intestinal infection, malnutrition, children.

**Background:** Malnutrition is one of the most important underlying causes of child mortality and morbidity in developing countries, particularly during the first 5 years of life. Gastrointestinal and urinary tract infections are the most common infections in malnourished children.

**Objective:** In this present study, intestinal infections were surveyed in malnourished children.

**Methods:** The present research was conducted as a cross sectional study over 12 months. In this period of time, all the malnourished children admitted to health center in south of Tehran, were included in study. Malnutrition was found in children with clinical examinations. The clinical examinations included measurement of body weight, height and weight-for-age children Z scores and compared them with the standard growth curve. Malnourished children and control group (were matched with sex and age to malnourished children) were referred to the laboratory for stool